

We Claim:

1. A golf club head, comprising:

a body portion defining an upper opening and a front opening and having a sole and a side section, the side section extending rearward of the front opening and having toe, rear and heel regions, the body portion having a density of at least about 4 g/cc;
- 5 a striking plate securely attached to the body portion, enclosing the front opening; and  
a crown secured to the body portion thereby enclosing the upper opening, the crown incorporating composite material and having a density between 1 g/cc and 2 g/cc, the crown having a maximum thickness no greater than about 2 mm, the golf club head having a maximum coefficient of restitution of at least 0.80 and a volume of at least 150 cc.
2. A golf club head as defined in claim 1, the body portion including a recessed support extended from a shoulder and positioned adjacent to the upper opening to support the crown.
3. A golf club head as defined in claim 2, wherein the recessed support is an annular lip surrounding the upper opening.
4. A golf club head as defined in claim 2, the crown having a first portion sized to sit on the recessed support of the body portion such that a side edge of the first portion is proximate to the shoulder of the body portion, thereby forming a junction between the first portion of the crown and the body portion, the crown further having a surface veil secured atop the junction.
5. A golf club head as defined in claim 4, wherein at least one of the side edge of the first portion and the shoulder of body portion has a tapered profile thereby forming a depression about the junction, wherein the surface veil at least partially fills the depression.
6. A golf club head as defined in claim 4, wherein the surface veil entirely covers an upper surface of the first portion of the crown.
7. A golf club head as defined in claim 4, wherein the volume is at least 350 cc.
8. A golf club head, comprising:

a body portion defining an upper opening and a front opening and having a sole and a side section, the side section extending rearward of the front opening and having toe, rear and

heel regions, the body portion including a recessed support extended from a shoulder and  
5 positioned adjacent to the upper opening, the body portion having a density of at least about  
4 g/cc;

a striking plate securely attached to the body portion, enclosing the front opening; and  
a crown securely attached to the body portion enclosing the upper opening, the crown  
including plies of composite material having a fiber areal weight of between 20 g/m<sup>2</sup> and 200  
10 g/m<sup>2</sup> and having a maximum thickness no greater than about 2 mm, the weight of the crown  
being less than the weight of a similar sized piece formed of the material of the body portion;  
wherein at least one of the striking plate and the crown is attached to the body portion by  
adhesive bonding, the golf club head having a maximum coefficient of restitution of at least 0.80  
and a volume of at least 150 cc.

9. A golf club head as defined in claim 8, wherein the recessed support is an annular lip  
surrounding the upper opening.

10. A golf club head as defined in claim 8, the crown having a first portion sized to sit on the  
recessed support of the body portion such that a side edge of the first portion is proximate to the  
shoulder of the body portion, thereby forming a junction between the first portion of the crown  
and the body portion, the crown further having a surface veil secured atop the junction.

11. A golf club head as defined in claim 10, wherein at least one of the side edge of the first  
portion and the shoulder of body portion has a tapered profile thereby forming a depression  
about the junction, wherein the surface veil at least partially fills the depression.

12. A golf club head as defined in claim 10, wherein the surface veil entirely covers an upper  
surface of the first portion of the crown.

13. A golf club head as defined in claim 10, wherein the plies of composite material include a  
fabric ply and at least one layer of at least four plies of uni-tape standard modulus composite.

14. A method of manufacturing a hollow golf club head having a volume of at least 150 cc, comprising:

forming a body of a metal material, the body having walls forming a front that defines a front opening, a side section, a sole and a top section that defines an upper opening, the body  
5 including a recessed support extended from a shoulder and positioned adjacent to the upper opening;

forming a striking plate adapted to be secured to the body and enclose the front opening;  
securely attaching the striking plate to the body, enclosing the front opening;

forming a crown of a material having a density less than 2 g/cc, the crown having a  
10 maximum thickness no greater than 2 mm, the crown adapted to be secured to the body, enclosing the upper opening; and

securely attaching the crown to the body, enclosing the upper opening; wherein at least one of the crown and the striking plate is attached by adhesive bonding to the opening in the body, the golf club head having a maximum coefficient of restitution of at least 0.80.

15. A method as defined in claim 14, wherein forming the body comprises casting a metal material, the front and upper openings are formed in the casting step.

16. A method as defined in claim 14, wherein forming the striking plate comprises cold-forming a metal material to the desired thickness, shape and size, and the step of attaching the striking plate comprises welding.

17. A method as defined in claim 14, wherein:

forming the crown comprises forming a first portion sized to sit on the recessed support of the body such that a side edge of the first portion is proximate to the shoulder of the body portion, thereby forming a junction between the first portion of the crown and the body portion;  
5 and

attaching the crown comprising securing a surface veil atop the junction.

18. A method as defined in claim 17, further comprising:  
providing a tapered profile to at least one of the side edge of the first portion and the shoulder of body portion has a tapered profile thereby forming a depression about the junction, wherein the surface veil at least partially fills the depression.
19. A method as defined in claim 17, wherein the surface veil entirely covers an upper surface of the first portion of the crown.